Attorney Docket No. 21715/1010 U.S.S.N. 09/689,952 Filed October 12, 2000

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Comparison of the ORF of the S. aureus contig that encodes a tryptic peptide similar to that identified in the S. aureus phage 77 ORF 104 binding studies with all other sequences in the public domain databases revealed that the ORF is related to the DnaI protein from Bacillus subtilis (Table 1, SEQ ID NOs: 14-15) a protein implicated in chromosome replication. No other significant similarity was found with any other protein in publicly accessible databases. The degree of relatedness of the identified ORF to the B. subtilis DnaI protein shows 41% identity and 63% similarity (Table 1, SEQ ID NOs: 14-15)

3. Please replace the last paragraph (from line 15 on page 44 to line 8 on page 45) with the following paragraph:

'Using methodology described in detail in Example 1, a S. aureus polypeptide that specifically bound the P77 phage ORF 104 protein was isolated. The sequence of a tryptic peptide of the S. aureus polypeptide, GHVPENVTDNDR (SEQ ID NO: 19), was used to BLAST search the S. aureus nucleotide sequence in the University of Oklahoma S. aureus genomic database at http://www.genome.ou.edu/staph.html. One sequence contig of 4850 nucleotides in length (Contig 981), when converted into amino acid sequence, contained within it the similar amino acid sequence GHVPELYVDNNR (SEQ ID NO: 11; Fig. 5). This tentative identification of the candidate protein was then confirmed upon in silico tryptic digestion of the open reading frame found in the contig (Fig. 5). The obtained PSD/CID spectra for tryptic peptides with monoisotopic MH+ masses of 1351.8, 1412.7, and 1617.8

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REMARKS

Applicants submit that, as required by 37 C.F.R. §1.821 (f), the content of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 C.F.R. §1.821 (c) and (e) respectively, are identical.

Applicants further submit that, as required by 37 C.F.R. §1.821 (g), that the enclosed submission includes no new matter.

Respectfully submitted,

Date: August 1, 2002

Name: Kathleen Williams Registration No.: 34,380 Customer No.: 29933 Palmer & Dodge LLP 111 Huntington Avenue Boston, MA 02199-7613

Tel: 617-239-0100